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# U.S. Department of Energy Workshop on Standards for Distribution Transformers

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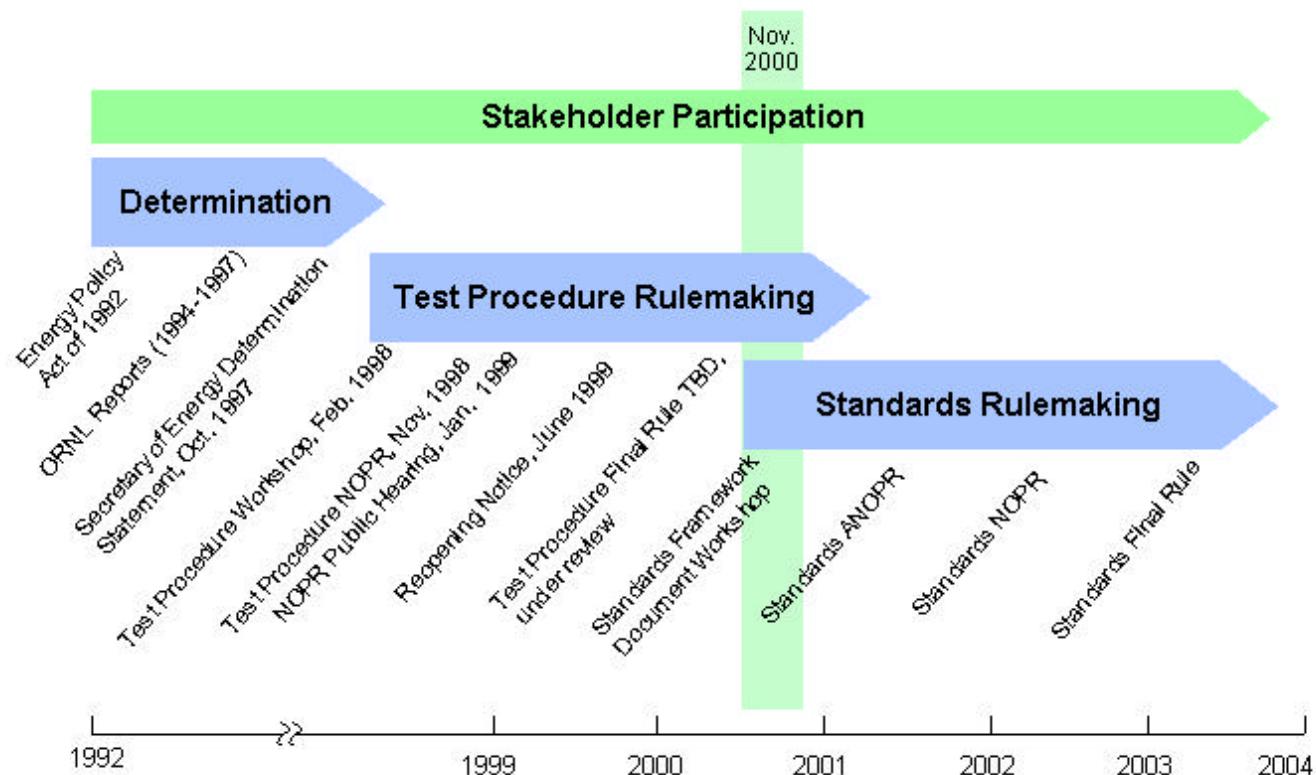
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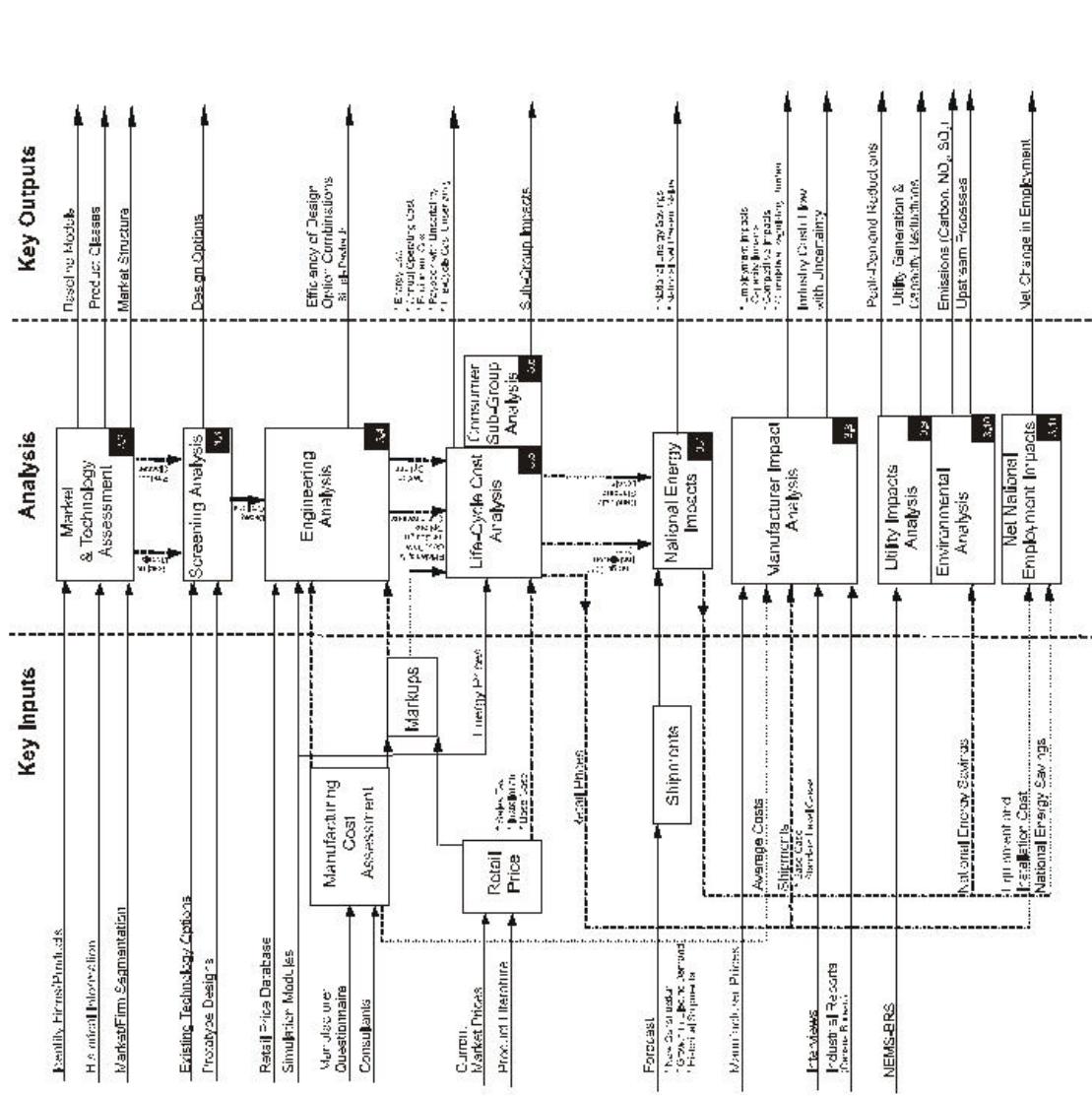


## Distribution Transformer Standards Setting Process





# Flow Diagram of Analyses for Distribution Transformer Energy Conservation Standards





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# ANOPR

- Engineering Analysis
- Life-Cycle Cost Analysis
- Preliminary Energy Saving
- Candidate Standard Levels



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# NOPR

- Consumer Analysis
- Manufacturer Impact Analysis
- Utility Impacts Analysis
- Environmental Analysis
- Employment Impacts
- Proposed Standards

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# Final Rule



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# Transformers Considered

Transformers designed to continuously transfer electrical energy either single phase or three phase from a primary distribution circuit to a secondary distribution circuit, within a secondary distribution circuit, or to a consumer's service circuit; limited to transformers with primary voltage of 480 V to 35 kV, a secondary voltage of 120 V to 600 V, a frequency of 55-65 Hz, and a capacity of 10 kVA to 2500 kVA for liquid-immersed transformers or 5 kVA to 2500 kVA for dry-type transformers.



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## Product Class

- Parameters of Distinction
- Affects on Efficiency
- Affects on Utility